



Year 7 Progress Grid – Spring Term

Name:

Class:

Topic	Grades 3/2/1 - (D/E/F)	Grades 6/5/4 - (B/C)	Grades 9/8/7 - (A*/A)
Terminology	I need support to use the correct terminology	I sometimes use the correct terminology	I always use the correct terminology
Number Systems	<ul style="list-style-type: none"> I can identify storage capacity in size order with help I can convert 2 bit binary numbers into denary I can explain the term 'character set' 	<ul style="list-style-type: none"> I can identify storage capacity in size order I can convert 4 bit binary numbers into denary I can explain how ASCII represents that character set of a computer 	<ul style="list-style-type: none"> I can identify storage capacity in size order I can convert 8 bit binary numbers into denary I can explain the difference between using an ASCII character set and a Unicode character set
Encryption	<ul style="list-style-type: none"> I am aware of one method of encryption (Morse) 	<ul style="list-style-type: none"> I am aware of different methods of encryption (Morse, Semaphore, Caesar Ciphers) 	<ul style="list-style-type: none"> I am aware of a range of encryption methods (Morse, Semaphore, Caesar Ciphers and Vigniere Ciphers)
Image Representation	<ul style="list-style-type: none"> Using binary code provided, I can represent images on paper I can explain the term metadata 	<ul style="list-style-type: none"> Using binary code provided, I can represent images on paper I can create my own images using binary code I can explain the term metadata and apply to limited scenarios 	<ul style="list-style-type: none"> I can represent images on paper using binary code I can create my own images using binary code I can explain the term metadata and apply it to a range of scenarios



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Software	<ul style="list-style-type: none"> • I can explain the term software • I can explain the purpose of an operating system and give at least 2 examples 	<ul style="list-style-type: none"> • I can explain the term software • I can explain the purpose of an operating system • I can explain the main categories of software and give examples: <ul style="list-style-type: none"> ○ Proprietary ○ Bespoke/Customised ○ Operating Systems ○ Open Source 	<ul style="list-style-type: none"> • I can explain the term software • I can explain the purpose of an operating system • I can explain the main categories of software and give examples • I can give examples of the main types of software • I can explain the advantages and disadvantages of different categories of software
Databases	<ul style="list-style-type: none"> • I can explain the term database • I can recognise some of the main features of a database <ul style="list-style-type: none"> ○ Tables ○ Fields ○ Records • I can recognise the main data types 	<ul style="list-style-type: none"> • I can explain the term database • I can recognise most of the main features of a database: <ul style="list-style-type: none"> ○ Tables ○ Fields ○ Records ○ Queries • I can recognise most data types 	<ul style="list-style-type: none"> • I can explain the term database • I can recognise most of the main features of a database: <ul style="list-style-type: none"> ○ Tables ○ Fields ○ Records ○ Queries ○ Reports ○ Data Entry Forms • I can recognise all data types
Computational Thinking	<ul style="list-style-type: none"> • I can explain the term ‘algorithm’ and give limited examples • I can write basic pseudocode steps • I can follow a basic flow chart (sequence) • I can recognise some flowchart symbols 	<ul style="list-style-type: none"> • I can explain the term ‘algorithm’ and give some examples • I can explain the term decomposition • I can create an algorithm • I can write pseudocode steps • I can recognise most flow chart symbols 	<ul style="list-style-type: none"> • I can explain the term ‘algorithm’ and give a range of examples • I can explain the term decomposition • I can create my own algorithm • I can write detailed pseudocode steps • I can recognise a range of flowchart symbols





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		<ul style="list-style-type: none"> I can create a flowchart to match pseudocode 	<ul style="list-style-type: none"> I can create a flowchart to match pseudocode
Visual Programming	<ul style="list-style-type: none"> I am familiar with the basic features within the Scratch interface I can create a polygon in Scratch (square) 	<ul style="list-style-type: none"> I am familiar with most features within the Scratch interface I can independently create a range of polygons 	<ul style="list-style-type: none"> I am familiar with a range of features within the Scratch interface I can independently create a wide range of polygons I can create Spirograph patterns using polygons
Text Based Programming	<ul style="list-style-type: none"> I am familiar with the basic features within the Python interface I can recognise the difference between the Command Line and IDLE interfaces I can use Turtle graphics to create a polygon (square/sequence) using the code provided I can alter the pen size and colour, with support 	<ul style="list-style-type: none"> I am familiar with most features within the Python interface I can explain the difference between the Command Line and IDLE interfaces I can use Turtle graphics to create polygons using the code provided I can independently alter the pen size and colour I can change the speed of the turtle 	<ul style="list-style-type: none"> I am familiar with a range of features within the Python interface I can explain the difference between the Command Line and IDLE interfaces I can explain the advantages and disadvantages between the Command Line and the IDLE interfaces I can use Turtle graphics to create a range of polygons using the code provided including loops I can independently alter the pen size and colour I can change the speed of the turtle I can change the shape of the turtle I can relate the pen colour to Hexadecimal code

